

AMSAT News Service Weekly Bulletins

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AMSAT NEWS SERVICE

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The AMSAT News Service bulletins are a free, weekly news and information service of AMSAT, the Radio Amateur Satellite Corporation. ANS publishes news related to Amateur Radio in Space including reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

The news feed on <http://www.amsat.org> publishes news of Amateur Radio in Space as soon as our volunteers can post it.

Please send any amateur satellite news or reports to: [ans-editor \[at\] amsat \[dot\] org](mailto:ans-editor@amsat.org)

You can sign up for free e-mail delivery of the AMSAT News Service Bulletins via the ANS List; to join this list see: <https://mailman.amsat.org/postorius/lists/ans.amsat.org/>

ANS-309 AMSAT News Service Weekly Bulletins

To: All RADIO AMATEURS

From: Radio Amateur Satellite Corporation

712 H Street NE, Suite 1653

Washington, DC 20002

DATE 2023 NOV 05

AMSAT Member and University of Louisiana Apply for ELaNu Grant

Bob Twiggs and the University of Louisiana at Lafayette are applying for an ELaNu grant to fly 20 sub-1U satellites to low earth orbit.

These sats are equipped with a two-way transceiver with enough link margin to communicate to a ground station with simple antennas. Included in this frame will be solar panels, batteries, an Arduino clone, a transceiver, and 150 ^ cm for your payload. Please see the YouTube link below for a more detailed description.

If the ELaNu grant is approved this will allow the selected schools a very easy path to space. Bob and the University are now accepting application for you to participate in this program. The first five organizations to apply will be free while the remaining applicants must pay ~\$200.00 in order to be part of the project. If you have an interest in this exciting opportunity, please contact Nick Pugh, K5QXK at [quadpugh \[at\] bellsouth \[dot\] net](mailto:quadpugh@bellsouth.net).

A detailed description of the project can be viewed at <https://www.youtube.com/live/DzKKHTBxyY8?si=s400V901Yszl9gcA&t=4039>.

[ANS thanks Nick Pugh, K5QXJ, for the above information.]

Delfi-C3 - D064 Deorbiting Soon

Wouter Weggelaar, PA3WEG, says, "We would like to request all amateur radio operators / SWL's / satellite enthusiasts worldwide to listen for Delfi-C3's telemetry downlink on 145.867 MHz, 1200 baud AX.25 BPSK. We will hand out an award certificate to the person submitting the last Delfi-C3 telemetry frame."

This can be done either through the RASCAL software (updated version coming), through the SATNOGS network or by sending us decoded telemetry frames with reception time and location via email to Delfi at tudelft.nl.

On behalf of the entire Delfi-C3 team, we would like to sincerely thank the worldwide amateur radio/SWL/satellite community for assisting the team by forwarding received telemetry and reception reports.

Delfi-C3 is a CubeSat satellite constructed by students at the Delft University of Technology in the Netherlands. It is a 3U CubeSat launched on April 28, 2008. Wouter recalls, "Back in 2008 we could not imagine the great support received so far and the many firsts we had, including a successful ground network and flying the first linear transponder in a CubeSat. We strongly believe that Delfi-C3 has paved the way for many follow-on missions, both amateur and commercial, and has been a great step towards maturing CubeSat technology as well as training the next generation of space engineers. Stay tuned for updates!"

[ANS thanks Wouter Weggelaar, PA3WEG, for the above information.]

VUCC & DXCC Satellite Standing November 2023

+ VUCC Satellite Award/Endorsement Change Summary for October 01, 2023 to November 01, 2023.

WA4NVM	1639	1653
K8DP	1555	1575
WC7V	1400	1426
N8R0	1356	1368
W5CBF	1201	1224
N0JE	1025	1057
S57NML	615	1028
F4BKV	900	1000
XE1A0	801	1000
N3GS	980	986
NS3L	851	875
W8LR	801	818
KN2K	804	808
KQ4D0	750	808
VE1V0X	610	731

Congratulations to the new VUCC holders.
YG3EMH is first VUCC Satellite holder from Indonesia and OI71.
KI7WXP is first VUCC Satellite holder from DN09.
A65D is first VUCC Satellite holder from LL74.

Y02KHK	142	151
SV8CS	146	150
Y02RR	136	138
WC7V	100	125
ZS2BK	New	106
K0JM	New	101
YU0W	New	101
F5VMJ	New	100
KE8RJU	New	100
TF1A	New	100

Congratulations to the new DXCC holders.
K0JM is first DXCC Satellite holder from MN.
YU0W is first DXCC Satellite holder from Serbia.
TF1A is first DXCC Satellite holder from Iceland.

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+ Completed Contacts

Walkerston State School, Walkerston, Queensland, Australia, telebridge via K6DUE.

The ISS callsign was NA1SS.

The crewmember was Loral O'Hara, KI5TOM.

The ARISS mentor was VK4KHZ.

Contact was successful on Friday, October 3, 2023.

+ Upcoming Contacts

Halls Head College, Mandurah, Western Australia, Australia, telebridge via ZS6JON.

The ISS callsign is presently scheduled to be NA1SS.

The scheduled crewmember is Loral O'Hara, KI5TOM.

The ARISS mentor is VK4KHZ.

Contact is go for Monday, November 11, 2023 at 07:52:56 UTC.

The crossband repeater continues to be active (145.990 MHz up {PL 67} & 437.800 MHz down). If any crewmember is so inclined, all they have to do is pick up the microphone, raise the volume up, and talk on the crossband repeater. So give a listen, you just never know.

The packet system is also active (145.825 MHz up & down).

As always, if there is an EVA, a docking, or an undocking; the ARISS radios are turned off as part of the safety protocol.

Note, all times are approximate. It is recommended that you do your own orbital prediction or start listening about 10 minutes before the listed time.

The latest information on the operation mode can be found at

<https://www.ariss.org/current-status-of-iss-stations.html>

The latest list of frequencies in use can be found at <https://www.ariss.org/contact-the-iss.html>

[ANS thanks Charlie Sufana, AJ9N, one of the ARISS operation team mentors for the above information.]

Upcoming Satellite Operations

A growing number of satellite rovers are currently engaged in sharing their grid square activations on <https://hams.at>. By visiting the website, you gain easy access to comprehensive information about the operators responsible for activating specific grid squares. Additionally, you have the ability to assess the match score between yourself and a particular rover for a given pass, while also being able to identify the upcoming satellite passes that are accessible from your location.

[ANS thanks Ian Parsons, K5ZM, AMSAT Rover Page Manager, for the above information.]

Hamfests, Conventions, Maker Faires, and Other Events

AMSAT Ambassadors provide presentations, demonstrate communicating through amateur satellites, and host information tables at club meetings, hamfests, conventions, maker faires, and other events.

AMSAT Ambassador Clint Bradford, K6LCS, says, "Think a 75-minute presentation on "working the easy satellites" would be appropriate for your club or event? Let me know by emailing me at [k6lcsclint \[at\] gmail \[dot\] com](mailto:k6lcsclint@gmail.com) or calling me at 909-999-SATS (7287)!"

Clint has NEVER given the exact same show twice: EACH of the 150+ presentations so far has been customized/tailored to their audiences.

Satellite Shorts From All Over

+ On Thursday, NASA launched a new app to make it easier than ever to spot the International Space Station in the night sky. NASA has long operated the Spot the Station website, but its new app, available on both iPhone and Android, brings augmented reality features and a handy interface to learn more about the orbiting laboratory. Find the app at the Apple App Store or at Google Play. [ANS thanks Clint Bradford, K6LCS, and JoAnne Maenpaa, K9JKM, for the above information.]

+ Three Chinese astronauts lifted off on the Shenzhou-17 spacecraft from the Jiuquan Satellite Launch Center deep in the Gobi Desert on Oct. 26, heading for the Tiangong space station for a six-month stay. This is China's sixth manned mission to its space station since 2021. China has sought to open up its station to collaboration with international partners, including by hosting experiments from other countries. It has promised an amateur radio presence aboard Tiangong, but no amateur activity has been observed thus far. [ANS thanks CNN for the above information.]

+ SatDump is a popular program that is used with RTL-SDRs and other SDRs for decoding transmissions from a wide array of weather satellites and their various imagers and sensors. Recently SatDump's author Alan Antoine, F4LAU has been working on improving the way projections work. Projections are essentially when the weather satellite image is stretched and skewed to fit correctly over the curved earth. This means now that city markings and border lines should show up in the correct placed in any images received from SatDump. If you're interested, Alan has uploaded blog post on the SatDump website explaining the math, algorithms and problems he found when trying to get projections done right. Read more at <https://www.satdump.org/>. [ANS thanks rtl-sdr.com for the above information.]

Join AMSAT today at <https://launch.amsat.org/>

In addition to regular membership, AMSAT offers membership to:

- * Societies (a recognized group, clubs or organization).
- * Primary and secondary school students are eligible for membership at one-half the standard yearly rate.
- * Post-secondary school students enrolled in at least half time status shall be eligible for the student rate for a maximum of 6 post-secondary years in this status.
- * Memberships are available for annual and lifetime terms.

Contact info [at] amsat.org for additional membership information.

73 and remember to help Keep Amateur Radio in Space!

This week's ANS Editor, Frank Karnauskas, N1UW.
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